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FORM PTC	FORM PTO-1390 U.S. DEPA		COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER					
	DE	SMITTAL LETTER TO THI SIGNATED/ELECTED OFF ICERNING A FILING UND	050389-0058						
				U.S. APPLIC. NO. (if known, see 37 CFR 1.5) 10/526,471					
	ATIONAL /	March 5	ATIONAL FILING DATE 2004	PRIORITY DATE CLAIMED March 7, 2003					
TITLE OF INVENTION LOGICAL OPERATION ELEMENT EMPLOYING A FIELD EMISSION TYPE MICROFABRICATED ELECTRON EMITTER AND LOGICAL OPERATION CIRCUIT									
APPLICANTS FOR DO/EO/US Natsuo TATSUMI									
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
1.		This is a FIRST submission of items con	ncerning a filing under 35 U.S.C. 371.						
2.	\boxtimes	This is a SECOND or SUBSEQUENT s	ubmission of items concerning a filing unde	er 35 U.S.C. 371.					
3.		This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4.		The US has been elected (Article 31).							
5.		A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. is attached herewith (required only if not transmitted by the International Bureau). b. has been communicated by the International Bureau. c. is not required, as the application was filed in the United States Receiving Office (RO/US)							
6.		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a.							
8.		An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10.		An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items 11	. to 16. be	low concern other document(s) or info	rmation included:						
11.		An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
12.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13.		A preliminary amendment.							
14.		An Application Data Sheet under 37 CFR 1.76.							
15.		A substitute specification.							
16.		A power of attorney and/or change of address letter.							
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.							
18.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19.		Response to Notice of Non-Compliant Amendment with Signed Preliminary Amendment							
20.		Other items or information. International Preliminary Examination Report (Form PCT/IB/338)							

U.S. APPLIC. NO. (if kno 10/526,471	own, see 37 CFR 1.50)	INTERNATIONAL APPLICATION NO. PCT/JP2004/002840		ATTORNEY'S DOCKET NUMBER 050389-0058				
		CALCULATIONS	PTO USE ONLY					
21. The following	fees are submitted:							
☑ Basic National Sta	ge Fee	\$						
by IPEA/US indical All other situations	pared by ISA/US or the Int tes all claims satisfy provis	\$						
IPEA/US indicates Search fee (37 CFR 1.4 International Search International Search Rep	he ISA/US or the International all claims satisfy provision 45(a)(2)) has been paid on	\$						
TOTAL OF 21, 22 and 2	23 =		\$500	\$				
sequence listing	specification and drawings or compute rprogram listin or each additional 50 sheet	\$						
Total Sheets Extra S	Sheets Number of each	additional 50 or fraction up to a whole number)	RATE					
-100	/50=	ip to a whole humber)	X\$250	\$				
	r furnishing the oath or de	claration later than 30 mon		\$				
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE					
Total Claims	-20 =		x \$50.00	\$				
Independent Claims	-3 =		x \$200.00	\$				
Multiple dependent clain	<u> </u>	<u> </u>	+ \$360.00	\$				
		TOTAL OF ABO	DVE CALCULATIONS =	\$				
☐ Applicant claims sm	all entity status. See 37 CF	\$						
			SUBTOTAL =	\$				
1	• •	h translation later than the	30 months from the	\$	- -			
earliest claimed priority	date (37 CFR 1.492(f)).	TO	TAL NATIONAL FEE =					
Fee for recording the en accompanied by an app	closed assignment (37 CF ropriate cover sheet (37 C	R 1.21(h)). The assignme FR 3.28, 3.31). \$40.00 pe	ent must be er property +	\$				
		тот	AL FEES ENCLOSED =	\$0.00				
			Amount to be:refunded	\$				
				Amount to be charged	\$0.00			
a. 🗆 A.c	check in the amount of \$ _	to cover the above fe	es is enclosed.	- · · -				
b. Please charge my Deposit Account No. 500417 in the amount of \$_0.00 to cover the above fees. A duplicate copy of this sheet is enclosed.								
c.								
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.								
SEND ALL CORRESPONDENCE TO:								
Customer Number 202	277	SIG	SIGNATURE					
Telephone: 202.756.800	00	Ger	Gene Z. Rubinson					
Facsimile: 202.756.8087	7							
Date: April 14, 2006								

Application No. Applicant(s) Notice of Non-Compliant 10/526471 **Amendment (37 CFR 1.121)** Examiner Art Unit 2821 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --The amendment document filed on 3 March 2005 is considered non-compliant because it has failed to meet the requirements of 37 CFR 1.121 or 1.4. In order for the amendment document to be compliant, correction of the following item(s) is required. THE FOLLOWING MARKED (X) ITEM(S) CAUSE THE AMENDMENT DOCUMENT TO BE NON-COMPLIANT:

1. Amendments to the specification: A. Amended paragraph(s) do not include markings. □ B. New paragraph(s) should not be underlined. C. Other _____ 2. Abstract: A. Not presented on a separate sheet. 37 CFR 1.72. ☐ B. Other ☐ 3. Amendments to the drawings: A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d). ☐ B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings showing amended figures, without markings, in compliance with 37 CFR 1.84 are required. C. Other 4. Amendments to the claims: A. A complete listing of all of the claims is not present. ☐ B. The listing of claims does not include the text of all pending claims (including withdrawn claims) C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended). □ D. The claims of this amendment paper have not been presented in ascending numerical order. E. Other: ______

≤ 5. The amendment is unsigned or not signed in accordance with 37 CFR 1.4.

For further explanation of the amendment format required by 37 CFR 1.121, see MPEP § 714 and the USPTO website at http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/officeflyer.pdf.

TIME PERIODS FOR FILING A REPLY TO THIS NOTICE:

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- 1. Applicant is given no new time period if the non-compliant amendment is an after-final amendment or an amendment filed after allowance. If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the entire corrected amendment must be resubmitted within the time period set forth in the final Office action.
- 2. Applicant is given one month, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the corrected section of the non-compliant amendment in compliance with 37 CFR 1.121 or 1.4, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a Quayle action.

Extensions of time are available under 37 CFR 1.136(a) only if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action.

Failure to timely respond to this notice will result in:

Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action; or

Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.

Legal Instruments Examiner (LIE)

571-272-1581 Telephone No.

Docket No.: 050389-0058 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277

Natsuo TATSUMI : Confirmation Number: 1865

Application No.: 10/526,471 : Group Art Unit: 2821

Filed: March 03, 2005 : Examiner: Not yet assigned

For: LOGICAL OPERATION ELEMENT EMPLOYING A FIELD EMISSION TYPE MICROFABRICATED ELECTRON EMITTER AND LOGICAL OPERATION CIRCUIT

RESPONSE TO NOTICE OF NON-COMPLIANT AMENDMENT

Mail Stop Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Notice of Non-Compliant Amendment dated March 14, 2006, submitted herewith are the following for filing in the above-referenced application:

1. Signed copy of the Preliminary Amendment dated March 3, 2005

In the event that anything further is needed please contact the undersigned immediately.

To the extent necessary, Applicants petition for an extension of time under 37 C.F.R.

1.136. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

Gene Z. Rubinson Registration No. 33,351

Jene J. Rubin

Please recognize our Customer No. 20277 as our correspondence address.

600 13th Street, N.W. Washington, DC 20005-3096 Phone: 202.756.8000 GZR:aph

Facsimile: 202.756.8087 **Date: April 14, 2006**



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,471	03/03/2005	Natsuo Tatsumi	50389-058	1865
MCDERMOT	590 03/14/2006 FT WILL & EMERY	EXAMINER		
	600 13TH STREET, N.W. WASHINGTON, DC 20005-3096		ART UNIT	PAPER NUMBER
	e green		2821	
		DATE MAILED: 03/14/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Docket No.: 50389-058 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277

Natsuo TATSUMI, et al. : Confirmation Number: Not yet assigned

Application No.: Not yet assigned : Group Art Unit: Not yet assigned

Filed: March 03, 2005 : Examiner: Not yet assigned

For: LOGICAL OPERATION ELEMENT EMPLOYING A FIELD EMISSION TYPE MICROFABRICATED ELECTRON EMITTER AND LOGICAL OPERATION CIRCUIT

PRELIMINARY AMENDMENT

Mail Stop Preliminary Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Prior to examination of the above-referenced application, please amend the application as follows:

Amendments to the Specification begin on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

IN THE SPECIFICATION:

Please amend the paragraph beginning on page 7 at line 10:

-- [0042] Figure 12 is a view Figures 12(a) and 12(b) are views showing an example of a logical operation circuit according to the present invention, having a design in which electrodes of different elements are arranged in the same plane; and--

REMARKS

The specification has been amended so as to correct minor inadvertent errors in the specification. No new matter has been added. Entry of this preliminary amendment is respectfully requested.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

Arthur J. Steiner

Registration No. 26,106

600 13th Street, N.W. Washington, DC 20005-3096 Phone: 202.756.8000 AJS:blg

Facsimile: 202.756.8087

Date: March 3, 2005

Please recognize our Customer No. 20277 as our correspondence address.